

**Notice of Allowability**

Application No.

10/589,078

Examiner

Anh Q. Tran

Applicant(s)

AOYAMA ET AL.

Art Unit

2819

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/11/06.
2. ☒ The allowed claim(s) is/are 19-36.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date see dates
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

**DETAILED ACTION**

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the specification, change the page numbers: "86" to --72--.

"87" to --73--.

"88" to --74--.

"89" to --75--.

"90" to --76--.

"91" to --77--.

"92" to --78--.

"93" to --79--.

"94" to --80--.

"95" to --81--.

"96" to --82--.

***Allowable Subject Matter***

2. Claims 19-36 are allowed.
3. The following is an examiner's statement of reasons for allowance: with respect to claims 19, 20, and 32, in addition to other limitations in the claims, the prior art of

record fails to teach, disclose or render obvious the applicant's invention as claimed, particularly the feature describing:

-a data processing section that generates data by carrying out arrangement, duplication and inversion processing on the data from the logic operation section based on second setting information, and provides the data to the output signal control section as output signals; a memory control section that takes control by receiving jump setting information, reading out either the first or the second setting information of the storage section based on the jump setting information and providing the setting information to the logic operation circuit and the data processing section.

-a data processing section that generates data by carrying out arrangement, duplication and inversion processing on the data from the logic operation section based on second setting information, and provides the data to the output signal control section as output signals; a memory control section that receives stopping setting information and controls stopping between the logic operation section and the data processing section based on the stopping setting information.

-a data processing section that generates data by carrying out arrangement, duplication and inversion processing on the data from the logic operation section based on second setting information, and provides the data to the output signal control section as output signal; a memory control section that stores a lead position address indicating the lead position of storage position addresses of the first and second setting information at the storage section based on one of the control signal and index information at the time of receiving one of the control signal and the index information,

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Azegami et al. (6,404,224) discloses a programmable logic device comprises a plurality of logic cells in parallel, each logic cell having logic section, processing section, a storage section and memory control section, but the processing section does not performed duplication and inversion on the data from the logic operation section based on second setting information.

Rupp (6,633,181) discloses a programmable array comprises a plurality of logic block in parallel, each logic cell having logic section, processing section and control section, but does not has a storage section and the processing section does not performed duplication and inversion on the data from the logic operation section based on second setting information.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh Q. Tran whose telephone number is 571-272-1813. The examiner can normally be reached on M-Th (8:00-6:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rexford Barnie can be reached on 571-272-7492. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ANH Q. TRAN  
PRIMARY PATENT EXAMINER



12/6/07